## Claims

- 1. A gene which is selected from a polynucleotide represented by SEQ ID NO. 1 or a polynucleotide encoding a  $\gamma$ -butyrobetaine hydroxylase represented by SEQ ID NO. 2.
- 5 2. A recombinant vector comprising the gene of claim 1.
  - 3. The recombinant vector according to claim 2, which has accession number KCCM-10557.
- 4. A transformant transformed with a recombinant ovector comprising the gene of claim 1.
  - 5. The transformant according to claim 4, which is Escherichia coli.
- 6. A γ-butyrobetaine hydroxylase having an amino acid sequence that is selected from an amino acid sequence encoded by a polynucleotide represented by SEQ ID NO. 1 or an amino acid sequence represented by SEQ ID NO. 2.
  - 7. A method of preparing L-carnitine, which comprises hydroxylating  $\gamma$ -butyrobetaine using the  $\gamma$ -butyrobetaine hydroxylase of claim 6.